

814-EMD-001

EOSDIS Maintenance & Development (EMD) Project

SCF Toolkit 5.2.14 for the EOSDIS Core System (ECS)

Release Notes

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Revision 04

Raytheon Company
Upper Marlboro, Maryland

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1. Introduction

1.1 Purpose

The SDP Toolkit and related software have been developed by Raytheon Systems Company (RSC) in support of the EOSDIS Core System (ECS) project and will be used by data production software developers and scientists as a part of code development at their Science Computing Facilities (SCF) and later will encapsulate that code in Distributed Active Archive Center (DAAC) computing facilities. The HDF-EOS libraries will also be used by consumers of EOS products to access and manipulate data structures. These products range from calibrated Level 1 to Level 4 model data.

SDP Toolkit 5.2.14, HDF-EOS 2.14, and HDF-EOS 5.1.10 are versions that match ECS Software, Drop 7.00, installed at DAAC facilities.

1.2 Scope

This document describes the contents of the package delivery for SCF Toolkit 5.2.14 for the ECS Project; matching functionality in ECS Drop 7.00. The document identifies the baseline and patch level of the delivery. It also provides an inventory of the delivery, list fixed NCRs, and special operating instructions where applicable.

1.3 Impact if Not Installed

Using obsolete Science development software (Toolkit-related software) may adversely affect the running of Science Computing Facility software in the ECS system through incompatibilities.

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2. Related Documentation

2.1 ECS Baseline Document

- | | |
|--------------------|--|
| 333-EMD-001, Rev 4 | Release 7 SDP Toolkit User's Guide for the EMD Project |
| 170-EMD-001, Rev 4 | HDF-EOS Library User's Guide for the EMD Project, Volume 1:Overview and Examples |
| 170-EMD-002, Rev 4 | HDF-EOS Library Users Guide for the EMD Project Volume 2: Function Reference Guide |
| 175-EMD-001, Rev 4 | HDF-EOS Interface Based on HDF5, Volume 1: Overview and Examples |
| 175-EMD-002, Rev 4 | HDF-EOS Interface Based on HDF5, Volume 2: Function Reference Guide |

2.2 Vendor Documents

N/A

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3. General Package Description

3.1 General Product

This document accompanies the delivery of the Release 7.00 Science Data Production (SDP) Toolkit Version 5.2.14 and of the Hierarchical Data Format-Earth Observing System (HDF-EOS), Versions 2.14 and 5.1.10, software to the science user community. These versions contain fixes for problems found during the use of earlier versions. These releases also roll-up and include previously release patches (SCF Toolkits 5.2.14 and associated HDF-EOS releases).

3.2 New/Added Capabilities or Major Fixes

The following NCRs should be of special note to Instrument Team users for this release (note that some of those resolved were so resolved with prior patch releases):

HDF5 based HDF-EOS:

ECSSed40818 - Added a routine that returns a list of aliases for a given field
ECSSed42739 - Added HDF5's H5T_C_S1 datatype for string type in HDF-EOS5
ECSSed44329 - Fixed problem in linkage between levels in HDF-EOS5's Point structure
ECSSed44435 - Fixed problem with writing Forward Linkage data in HDF-EOS5's Point objects
ECSSed44437 - Fixed problem with setting backward linkage field data in HDF-EOS5's Point objects
ECSSed44395 - Fixed problem with updating of levels in Point objects of HDF-EOS5's

3.3 Affected Subsystem(s)

SDP Toolkit and HDF-EOS.

3.4 Impacts to other COTS Products

Supported HDF versions: HDF4.2r1 and HDF5-1.6.5 (post5 patch)

3.5 License Impacts

N/A

3.6 Vendor Known Bugs

N/A

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4. Inventory

4.1 Tar File Listing

This release contains the following tarfiles:

| <u>Checksum</u> | <u>Blocksize</u> | <u>Filename</u> |
|-----------------|------------------|------------------------------------|
| 3171097213 | 6853313 | HDF-EOS2.14v1.00.tar.Z |
| 3760667039 | 177245 | HDF-EOS2.14v1.00_TestDriver.tar.Z |
| 2072191868 | 6865421 | HDF-EOS5.1.10.tar.Z |
| 3389166797 | 305798 | HDF-EOS5.1.10_TESTDRIVERS.tar.Z |
| 577532713 | 6564071 | HDF4.2r1.tar.Z |
| 3596845867 | 4941134 | hdf5-1.6.5-post5.tar.gz |
| 2246787493 | 951397 | jpegsrc.v6b.tar.Z |
| 3110831804 | 11682570 | SDPTK5.2.14v1.00.tar.Z |
| 2230931988 | 2512663 | SDPTK5.2.14v1.00_TestDrivers.tar.Z |
| 3399152787 | 368904 | szip-2.0.tar.gz |
| 332881789 | 348164 | zlib-1.2.1.tar.gz |

4.2 Physical Media

N/A

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5. Non-Conformance Status

5.1 NCR(s) Included in Release

The following NCRs are those affecting the SCF Toolkit and HDF-EOS.

| NCR Number | Severity | State | Subsystem | Issuing Site | Description | Test Site | Status |
|------------|----------|-------|-----------|--------------|--|-----------|--------|
| ECSed42481 | 3 | C | HDF-EOS | EDF | Need CEA projection test case in the HDF-EOS5 test driver | EDF | |
| ECSed42738 | 3 | C | HDF-EOS | EDF | Missing the data type value in StructMetadata of HDF-EOS5 | EDF | |
| ECSed42916 | 3 | C | HDF-EOS | EDF | Missing a fortran wrapper of SWwritedatameta() routine in SWapi.c | EDF | |
| ECSed43095 | 3 | C | HDF-EOS | EDF | Possible problem in HDF-EOS5 with fortran code reading a file | EDF | |
| ECSed43200 | 3 | C | HDF-EOS | EDF | Port HDF-EOS and HDF-EOS5 to windows | EDF | |
| ECSed42739 | 3 | C | HDF-EOS | EDF | Need HDF5 H5T_C_S1 datatype for string type in HDF-EOS5 | EDF | |
| ECSed40818 | 3 | C | HDF-EOS | EDF | Need a routine that returns a list of aliases for a given field | EDF | |
| ECSed44329 | 3 | M | HDF-EOS | EDF | Possible problem in linkage between levels in HDF-EOS5's POINT structure | EDF | |
| ECSed44433 | 3 | M | HDF-EOS | SCI | Subsetting problem with HDF-EOS5 Grid | SCI | |
| ECSed44478 | 3 | M | HDF-EOS | EDF | HDF-EOS5: Installing HDF5-1.6.5 in SGI need setting LD_LIBRARY_PATH | EDF | |
| ECSed43083 | 3 | T | HDF-EOS | EDF | The new HDF5 API is source-code incompatible with HDF-EOS5 | EDF | |

| NCR Number | Severity | State | Subsystem | Issuing Site | Description | Test Site | Status |
|------------|----------|-------|-------------|--------------|---|-----------|--------|
| ECSed43086 | 3 | T | HDF-EOS | EDF | HDF-EOS5 library needs to be updated because of HDF5 API changes | EDF | |
| ECSed43090 | 3 | T | HDF-EOS | SCI | Problem in installing szip & HDF4 in some platforms because of Math lib | SCI | |
| ECSed43092 | 3 | T | HDF-EOS | EDF | Need to update configure file in szip1.2 amd HDF4.2r0 with the patches | EDF | |
| ECSed43093 | 3 | T | HDF-EOS | EDF | Update HDF4.2r1 and SZIP2.0 configure files with the patch from NCSA | EDF | |
| ECSed43695 | 5 | T | HDF-EOS | EDF | Need to update HDFView jar files for the release 2.2 for plugin | EDF | |
| ECSed44395 | 3 | T | HDF-EOS | EDF | Updating levels in a point object does not work properly | EDF | |
| ECSed44435 | 3 | T | HDF-EOS | SCI | Problem with writing Forward Linkage data for Point objects | SCI | |
| ECSed44437 | 3 | T | HDF-EOS | SCI | HDF-EOS5: Problem with setting backward linkage field data | SCI | |
| ECSed42412 | 3 | V | HDF-EOS | EDF | Need to merge HDF-EOS plugin for HDFView into clearcase | EDF | |
| ECSed43312 | 3 | C | MTD TOOLKIT | EDF | Change MTD_TOOLKIT references to TOOLKIT_MTD | EDF | |
| ECSed41273 | 3 | C | TOOLKIT | NSIDC | TOOLKIT HDF-EOS projection parameters need more significant digits | NSIDC | |
| ECSed26770 | 4 | C | TOOLKIT | EDC | Toolkit PCF: default directory almost white space delimited | EDC | |
| ECSed41962 | 5 | C | TOOLKIT | EDC DAAC | ALL Modes:SDP ToolKit needed for Linux Redhat Enterprise | EDC DAAC | |

| NCR Number | Severity | State | Subsystem | Issuing Site | Description | Test Site | Status |
|------------|----------|-------|-----------|--------------|--|-----------|--------|
| ECSed43272 | 3 | C | TOOLKIT | EDF | chkeph utility has problem reading binary eph files(different endiannes) | EDF | |
| ECSed43313 | 2 | C | TOOLKIT | EDC DAAC | LINUX TOOLKIT missing binary file being requested by GDS L1 code | EDC DAAC | |
| ECSed38725 | 4 | M | TOOLKIT | EDF | Problem with Fortran testdrivers in MET because of SZIP | EDF | |
| ECSed38726 | 4 | M | TOOLKIT | EDF | Testdrivers may need function declarations from void to int for c++ | EDF | |
| ECSed41810 | 3 | M | TOOLKIT | EDF | Need to test TOOLKIT with new LINUX RedHat Enterprise | EDF | |
| ECSed44273 | 3 | M | TOOLKIT | EDF | Problem with char field inquiry in the POINT object of HDF-EOS5 | EDF | |
| ECSed44434 | 3 | M | TOOLKIT | EDF | Possible problem with HDF5/HDF-EOS5 compiled in 64bit SGI architect... | EDF | |
| ECSed44468 | 5 | M | TOOLKIT | EDF | Need to implement HDF4.2r1 and SZIP2 in Toolkit for linux | EDF | |
| ECSed44500 | 3 | M | TOOLKIT | EDF | Linux: Testing CSC testdrivers in linux show different results | EDF | |
| ECSed41612 | 3 | M | TOOLKIT | EDF | Need to replace an error report function to get rid of a repeated warnings | EDF | |
| ECSed41989 | 3 | T | TOOLKIT | EDF | Floating point comparison error in some TOOLKIT functions | EDF | |
| ECSed42358 | 3 | T | TOOLKIT | EDF | Need to limit sys_error to strerror to linux platform | EDF | |
| ECSed43314 | 3 | T | TOOLKIT | EDF | Modifications needed in TOOLKIT for new SGI 7.4.2 compiler switch | EDF | |
| ECSed43957 | 5 | T | TOOLKIT | EDF | Solaris 10 Toolkit -TES | EDF | |

| NCR Number | Severity | State | Subsystem | Issuing Site | Description | Test Site | Status |
|------------|----------|-------|-----------|--------------|--|-----------|--------|
| ECSed42405 | 3 | V | TOOLKIT | EDF | Toolkit compilation shows too many warnings in sgi/linux machines. | EDF | |
| ECSed43065 | 3 | V | TOOLKIT | EDF | Need to implement HDF4.2r1 and SZIP2.0 in TOOLKIT for sun and sgi | EDF | |
| ECSed43094 | 3 | V | TOOLKIT | SCF | Possible defect in PGS_SMF_Comp.c | SCF | |

5.2 Open NCR(s) Against This Release

| NCR Number | Severity | State | Subsystem | Issuing Site | Description | Test Site | Status |
|------------|----------|-------|-----------|--------------|---|------------|--------|
| ECSed40894 | 3 | A | HDF-EOS | EDF | HDFView needs to be upgraded with the new releases of HDF/HDF-EOS, etc | EDF | |
| ECSed40083 | 5 | A | TOOLKIT | EDF | Reading HDF-EOS type ephem/attit files is slower than reading binary type | EDF | |
| ECSed44499 | 3 | B | TOOLKIT | EDF | Linux: Testing DEM testdrivers in linux show different results | EDF | |
| ECSed44438 | 3 | B | TOOLKIT | SCF | Possible problem during compilation of TOOLKIT in Linux enterprise | SCF | |
| ECSed39245 | 4 | N | HDF-EOS | EDF | For 64 bit Opteron HDF5 cannot be installed with SZIP | EDF | |
| ECSed40343 | 5 | N | HDF-EOS | NSIDC DAAC | 6A.08+ TS1/OPS Geolocation problem in HDF-EOS Structural Metadata | NSIDC DAAC | |
| ECSed41807 | 3 | N | HDF-EOS | EDF | Possible problem with HDF-EOS when compiling with c++ | EDF | |
| ECSed41917 | 3 | N | HDF-EOS | EDF | HDF-EOS fails to subset MISR data correctly. | EDF | |

| NCR Number | Severity | State | Subsystem | Issuing Site | Description | Test Site | Status |
|------------|----------|-------|-----------|--------------|---|-----------|--------|
| ECSed42413 | 3 | N | HDF-EOS | EDF | HDFView: Does not read field data correctly if dims ordered differently | EDF | |
| ECSed42416 | 3 | N | HDF-EOS | EDF | HDFView: For HDF-EOS2 files we need to show local attributes | EDF | |
| ECSed42640 | 3 | N | HDF-EOS | EDF | possible problem in SWextractregion reading a MOD021KM data file. | EDF | |
| ECSed43070 | 3 | N | HDF-EOS | EDF | SWregioninfo/SWextractregion may overflow the output buffer | EDF | |
| ECSed43195 | 3 | N | HDF-EOS | EDF | Problem in subsetting grid in SIN projection | EDF | |
| ECSed43920 | 5 | N | HDF-EOS | EDF | A new version of ZLIB is available for HDF-EOS integration | EDF | |
| ECSed44351 | 3 | N | HDF-EOS | SCI | Possible problem with writing HDFEOSVersion in HDF-EOS5.1.9 | SCI | |
| ECSed44584 | 3 | N | HDF-EOS | EDF | HDFEOS5:getaliaslist routines (SW, GD, ZA) must accept NULL for aliaslist | EDF | |
| ECSed44585 | 3 | N | HDF-EOS | EDF | HDFEOS5: getaliaslist Testdrivers need to be updated and tested | EDF | |
| ECSed40506 | 3 | N | TOOLKIT | EDF | DEM & EPH tools may have memory leaks. | EDF | |
| ECSed43066 | 5 | N | TOOLKIT | EDF | Major modification needed for future HDF4 release HDF4.2r2 | EDF | |
| ECSed43067 | 3 | N | TOOLKIT | EDF | Possible installation problem in linux using pgf77 instead of g77 | EDF | |
| ECSed43068 | 3 | N | TOOLKIT | EDF | Possible Installation problem in linux because of lack of yacc | EDF | |
| ECSed44185 | 3 | N | TOOLKIT | EDF | Possible problem with installing TOOLKIT in SGI64 when /bin/cc not found | EDF | |

| NCR Number | Severity | State | Subsystem | Issuing Site | Description | Test Site | Status |
|------------|----------|-------|-----------|--------------|--|------------|--------|
| ECSed44352 | 3 | N | TOOLKIT | SCF | Toolkit installation problem with f90 in Mac OSX platform | SCF | |
| ECSed43069 | 3 | N | TOOLKIT | EDF | Possible TOOLKIT installation problem in linux; limits.h not found | EDF | |
| ECSed43201 | 3 | N | TOOLKIT | NSIDC DAAC | 7.10 TS1 TOOLKIT missing file for install | NSIDC DAAC | |
| ECSed44042 | 3 | R | HDF-EOS | EDF | HDFView needs to show lat/lon for pixels on the panel | EDF | |
| ECSed44043 | 3 | R | HDF-EOS | EDF | HDF-EOS plug-in for HDFView does not let selection of default NCSA view | EDF | |
| ECSed44044 | 3 | R | HDF-EOS | EDF | Need to implement Point in HDFView for viewing AMSR-E level 2 Land prod. | EDF | |
| ECSed14424 | 4 | R | TOOLKIT | EDF | PGS_TD_SCtime_to_U TC_Driver_f.f and PGS_TD_UTC_to_SCtime_Driver_f.f have problem in sgi32 and sgi64 | EDF | |
| ECSed41478 | 3 | R | TOOLKIT | GSFC | HIRDLS has problem with orbsim in Opteron 64 bit Linux | GSFC | |
| ECSed43191 | 5 | R | TOOLKIT | EDF | Solaris 9 Toolkit - TES | EDF | |
| ECSed44249 | 3 | R | TOOLKIT | SCF | Possible problem with a CSC conversion tool | SCF | |

6. Machines Impacted

6.1 Machines Impacted

Supported Platforms and OS and compiler versions:

| PLATFORM | O/S | ***** C O M P I L E R S ***** | | |
|------------------------|----------------------------------|-------------------------------|--------------------------|---------------|
| | | C | F77 | F90 |
| DEC | Digital UNIX 4.0d | 5.6-079 | 4.1-6 | -- |
| **HP | HP-UX 11.0 | 11.02.02 | -- | 11.01.27 |
| SGI | IRIX 6.5.9 | 7.3.1.3m | 7.3.1.3m | 7.3.1.3m |
| SGI | IRIX 6.5.9 | 7.4.2m | 7.4.2m | 7.4.2m |
| SUN | Solaris 5.8 | 5.2 | 5.2 | 6.1 (F95) |
| SUN | Solaris 5.9 | 5.3 | 5.3 | 6.2 (F95) |
| SUN | Solaris 5.10 | 5.3 | 5.3 | 6.2 (F95) |
| *LINUX | LINUX 2.4.21-4.ELSmP | 3.2.3 (gcc) | 3.2.3 (g77) | 5.1-6 (pgf90) |
| LINUX 64-bit (Opteron) | SUSE Linux, RedHat Enterprise | 3.3 (gcc) 3.4.3 (gcc) | 3.3 (g77) 3.4.3 (g77) | |
| LINUX 64-bit (Itanium) | ia64 Linux | 2.96 (gcc) | 2.96 (g77) | |
| MACINTOSH | 7.9.0 Darwin | 3.3 (gcc) | 3.1 (g77) | |

*Packaged as Red Hat Linux Enterprise

**Currently HP support is limited to 32-bit processing because of HDF limitations. NCSA is aware of this problem and we await a resolution.

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7. Installation Instructions

7.1 Prerequisites

Estimated Installation Time: 3 hours for an experienced operator, novice, etc.

Obtaining the Software by FTP-site access:

DOWNLOAD SEQUENCE FOR TOOLKIT 5.2.13 AND HDF-EOS 2.13 FILES:

| | |
|---|-----------------------------------|
| >ftp edhs1.gsfc.nasa.gov | (begin ftp session) |
| username> anonymous | (login as anonymous) |
| password> user@my.site | (enter email address as password) |
| ftp>quote site group sdptk | (change group to sdptk) |
| ftp>quote site gpass ***** | (enter password for sdptk group) |
| ftp>cd sdptk | (change to toolkit directory) |
| ftp>binary | (set transfer mode to binary) |
| ftp> get SDPTK5.2.14v1.00.tar.Z | |
| ftp> get SDPTK5.2.14v1.00_TestDrivers.tar.Z | |
| ftp> get [any of the documents desired] | |

DOWNLOAD SEQUENCE FOR THE HDF-EOS 2.13 SOFTWARE AND USER'S GUIDE

| | |
|---|--|
| ftp> cd ..//hdfeos | |
| ftp> binary | |
| ftp> get HDF-EOS2.14v1.00.tar.Z | |
| ftp> get HDF-EOS2.14v1.00_TestDrivers.tar.Z | |
| ftp> get HDF4.2r1.tar.Z | |
| ftp> get jpegsrc.v6b.tar.Z | |
| ftp> get zlib-1.2.1.tar.gz | |
| ftp> cd docs | |
| ftp> get [any of the documents desired] | |

DOWNLOAD SEQUENCE FOR THE HDF-EOS5 SOFTWARE AND USER'S GUIDE

| | |
|--|--|
| ftp> cd ..//hdfeos5 | |
| ftp> binary | |
| ftp> get HDF-EOS5.1.10.tar.Z | |
| ftp> get HDF-EOS5.1.10_TESTDRIVERS.tar.Z | |
| ftp> get hdf5-1.6.5-post5.tar.gz | |
| ftp> get szip2.0.tar.gz | |
| ftp> cd docs | |
| ftp> get [any of the documents desired] | |
| ftp> bye | |

----- WHAT TO DO IF YOU HAVE PROBLEMS -----

The procedures above have been tested to verify their integrity. If you do have problems, please check with your local system administrator first. If the problem cannot be resolved, send a reasonably detailed e-mail message to landover_pgstlkit@raytheon.com.

If you have a problem or suggestion regarding the use of the Toolkit or HDF-EOS, use the same e-mail address. Please note that your comments and suggestions will be easier to document and keep track of if you use e-mail.

We expect you to follow up your message with the form provided in the e-mail feedback procedure (see the file Feedback_proc.txt) so that it can be tracked.

7.2 Installation Instructions

Installation instructions can be found in the associated User's Guide for the product.

7.3 Back-Out Instructions

N/A

Appendix A. Test Verification

A.1 Test Procedures

The principal machine used for ECS verification is the SGI platform. This release was tested on all of the supported platforms prior to release; and an additional full delivery sequence was conducted on the SGI platform.

1. EDHS FTP site accessed
2. Required files downloaded
3. All files installed
4. Test drivers run and output checked for validity.

A.2 Test Report

Passed successfully.

A.3 Evaluation Package

N/A

EDF Evaluation Plan/Report

| | |
|---|---|
| Technology Area: Software Development | Date: |
| Requester: | Report No: |
| Proposed Evaluation Group | |
| Applicability to ECS: Baseline Upgrade | |
| Reason Needed (Issue, need or risk): Vendor supported version of multi-threaded Open Client for SUN AND HP to replace beta version currently in baseline. | |
| DDM _____ | |
| Office | Office Manager: _____ Signature _____ Date _____ |
| 1. Product Description: Sybase Open Client 12.0.0 | |
| 1.1 Hardware/Platform Requirements③consider operating system revision level) SUN AND HP | |
| 1.2 Media Requirements: | |
| 2. Vendor: (company name, address, etc.) | |
| 2.1 Company Background: | |

| | | | | | |
|--|----------------------------------|----------------------------------|----------------------------------|--------------------------------|--|
| 2.2 Point of Contact: | 2.3 Phone Number: | | | | |
| 2.4 Fax Number | 2.5 Email Address | | | | |
| 3. Evaluation Plan | | | | | |
| 3.1 Date Needed: | | | | | |
| 3.2 Length of Evaluation: (please check one) | | | | | |
| 15 Days <input type="checkbox"/> | 45 Days <input type="checkbox"/> | 60 Days <input type="checkbox"/> | 90 Days <input type="checkbox"/> | Other <input type="checkbox"/> | |
| 3.3 Product Price: | | | | | |
| 3.4 EDF hardware, software and network requirements: Unix workstation set-up within an DCE cell. | | | | | |
| 3.5 Schedule: | | | | | |
| 3.6 Projected number of hours to be charged by each evaluator: | | | | | |
| 3.7 Evaluation Criteria: | | | | | |
| 4. Assessment of Product | | | | | |
| 4.1 Evaluation Against Criteria | | | | | |
| 5 Summary of Results | | | | | |
| ResultsReview Committee Comments: | | | | | |
| Priority: | | | | | |
| Disposition | | | | | |

SC01SE95